```
┌─────────────────┐
│  View Manager   │
├─────────────────┤
│      View       │
└─────────────────┘
         │
         ▼
┌─────────────────┐
│ Key Management  │
├─────────────────┤
│     Entity      │
└─────────────────┘
         │
         ▼
    ┌─────────┐
    │External │
    └─────────┘
```

Enterprise
View

Operational
Structure

Fig. 1

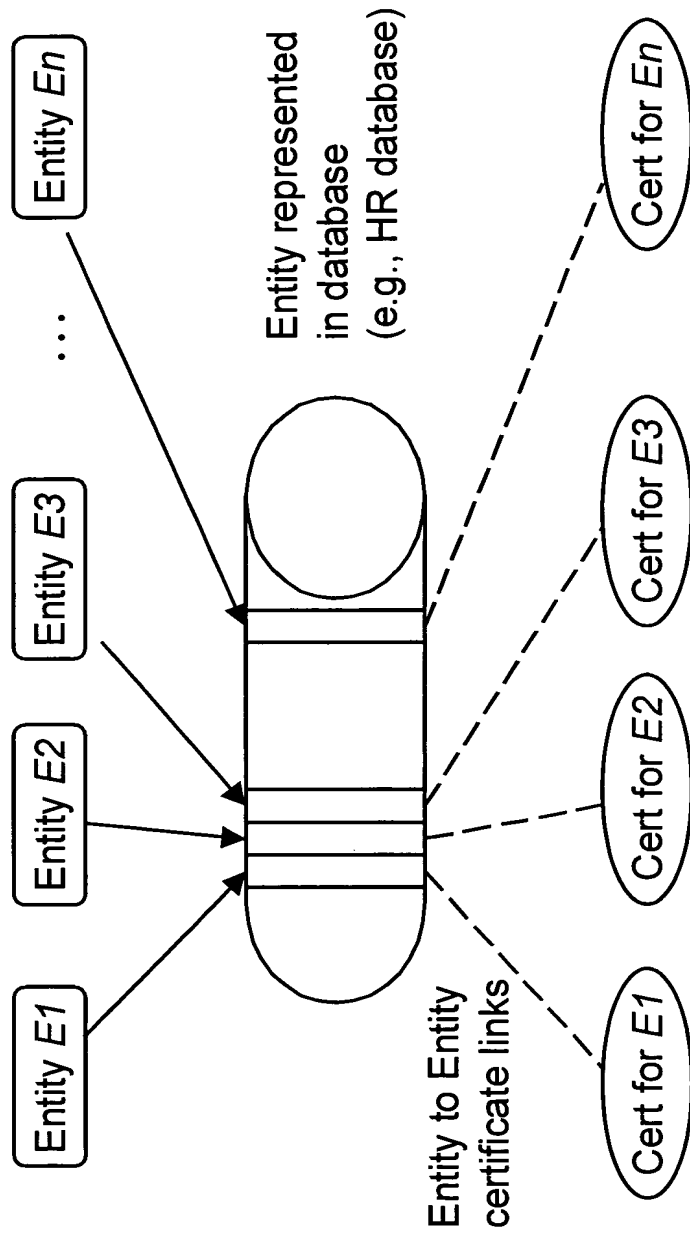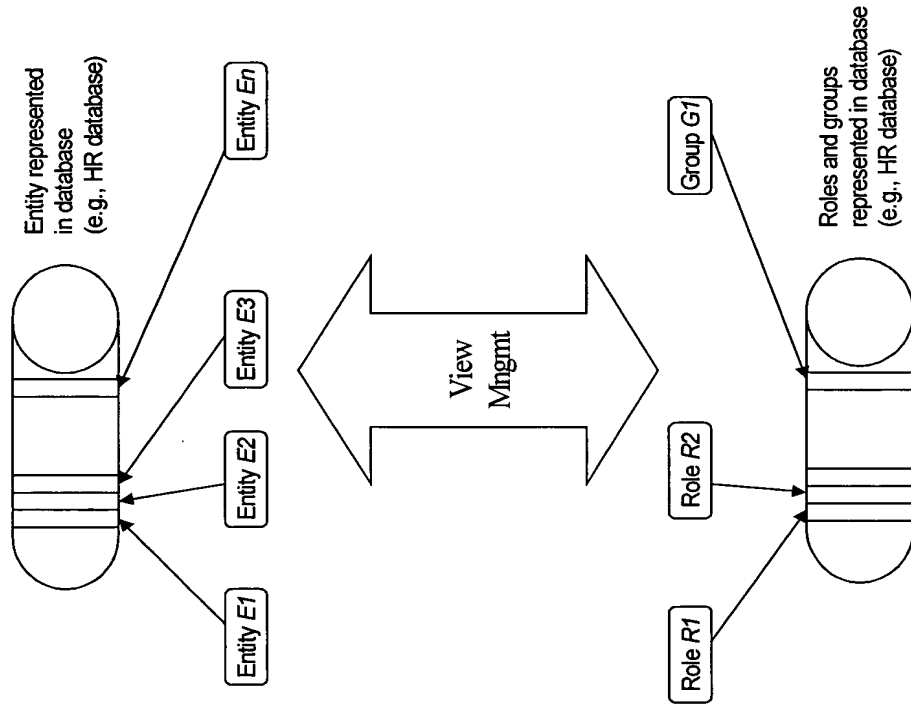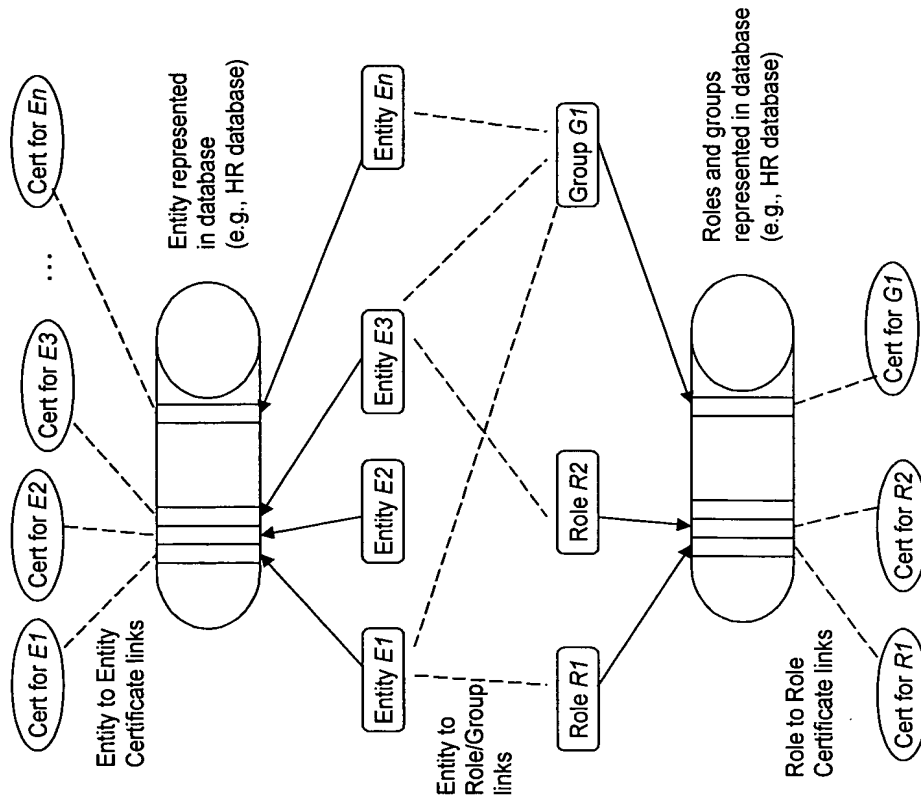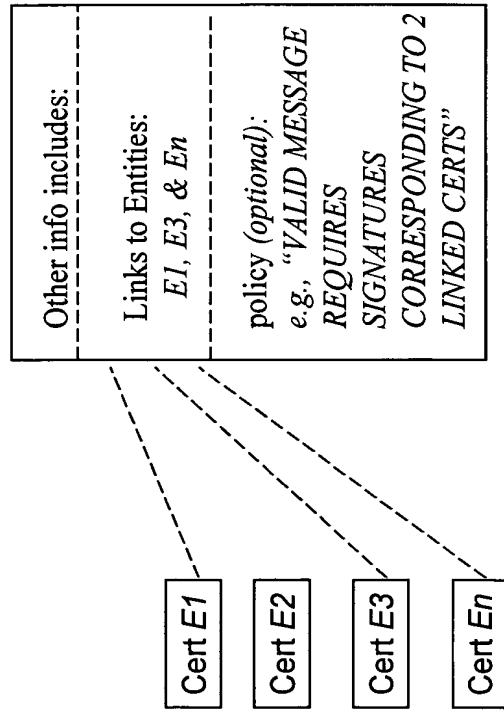|	
Version	1.1
Serial Number	12345
Signature Algorithm	RSA+MD2, 1024
Issuer	C=US, S=NY, O=Xcorp
Validity	1/1/98 - 12/31/99
Subject	C=US,S=NY, O=Xcorp,CN=John
Subject Public Key Info	RSA, 1024, public key value
Other info.	Roles, policies, reliance limits, etc
Signature of CA	(based on all the above, public info and CA's private key

Fig. 2

Entity E1

Entity E2

Entity E3

Entity En

...

Entity represented
in database
(e.g., HR database)

Cert for E1

Cert for E2

Cert for E3

Cert for En

Entity to Entity
certificate links

Fig. 3

3

Entity represented in database (e.g., HR database)

Entity En

Entity E3

Entity E2

Entity E1

View Mngmt

Group G1

Role R2

Role R1

Roles and groups represented in database (e.g., HR database)

Fig. 4

Fig. 5

Explicit group *G1* certificate

Other info includes:	
Links to Entities: *E1, E3, & En*	
policy *(optional)*: e.g., *"VALID MESSAGE REQUIRES SIGNATURES CORRESPONDING TO 2 LINKED CERTS"*	

Cert *E1*

Cert *E2*

Cert *E3*

Cert *En*

Valid message from *G1*

Data fields
Signature of *E1*
Signature of *E3*

Fig. 6

Implicit group certificate

Subject Public Key Info : contains a single public key:

PK

Valid message from group

Data fields

Signature of Data fields which can be validated by *PK*

Quorum of entities generate single signature which can be validated with *PK*

Entity *E1*

Entity *E2*

Entity *E3*

Entity *En*

Data Fields

Fig. 7